



## Safety and Buildings Division Home Page

[About S&B](#)

[Contacts](#)

[Programs](#)

[Forms](#)

[Events](#)

[Code  
Changes](#)

[Plan Review  
Appointments](#)

[Publications](#)

[Codes](#)

[Office  
Locations](#)

[Help for Site  
Users](#)

[Explanation  
of File  
Formats](#)

[Feedback](#)

## More information available from new division home page

More information is now available on the Internet from the Safety and Buildings Division's new Home Page, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>.

The new Home Page is based on S&B experience with what our WebSite users are requesting. Also, more initial choices are offered in an effort to shorten the path to specific points.

It is important that users provide feedback on S&B WebSite improvements they think of or about any problems encountered. Each page on the WebSite has an email link to a person responsible for the page. Not every problem can be solved, and S&B resources are limited; however the division gets its best suggestions from customers.

The division has retained the S&B first page that has been offering five paths into various S&B information, retaining an address WebSite users have set as a favorite or bookmark. That first page's address is <http://www.commerce.state.wi.us/COM/Com-Safety-and-Buildings.html>.

### What can you find, where?

[About S&B](#) is a general outline of what the Safety and Buildings Division does, with email contact links to the division's managers.

[Contacts](#) provides several ways to contact individual S&B staff, a listing

continued on page 2

### You don't use a computer?

While S&B is trying to satisfy many requests for more information on the Internet, if you couldn't care less about computers, the division doesn't discount your needs.

If you need information from S&B, contact the people listed on pages 14-15 of this *WBCR*.

# Wisconsin Building Codes Report

Safety and Buildings Division, Department of Commerce, January 2000

# S&B WebSite renewed

continued from page 1

of who can answer questions about various topics, listings of staff responsibilities - by county, by inspector, and by program district maps.

Programs links to pages for about 30 individual S&B programs.

Forms offers some of the division forms for printing off or downloading, in Portable Data Format (PDF), and as Word 97 files. These forms are not set up to be filled in and submitted via the WebSite.

Events lists meetings of advisory code committees and councils, and of code hearings.

Code Changes contains the most recent code hearing announcements and code proposal drafts.

Plan Review Appointments offers a calendar of when plan review appointments are available in each S&B plan review office, with an ability to email or fax appointment information.

Publications includes the latest issues of the *Wisconsin Building Codes Report*, the *Wisconsin Plumbing Codes Report*, *Mine Safety Newsletter*, and *Rental Energy Efficiency Newsletter*, plus access to archives of some previous issues.

Codes provides links to copies of codes S&B administers, and to sources of state government code-related information.

Office Locations provides address, contact information, and some maps for S&B offices.

Help for Site Users gives tips on using the S&B WebSite.

Explanation of File Formats provides info on different kinds of files used on the S&B WebSite and several links to free software that assist use of S&B files.

Feedback offers an opportunity to send email to the division concerning the WebSite.

## Note to inspectors about below-grade use of polystyrene beadboard

There has been some concern on the part of inspectors and homeowners regarding the long term durability of polystyrene beadboard when used below-grade in contact with soil. Duane Hubeler, S&B code consultant, reports an independent testing laboratory tested off-the-shelf beadboard and compared properties to product that had been buried up to three years.

The study showed that dimensional stability and R-values held up well. Freeze-thaw cycling did not appear to have adverse effects. Polystyrene beadboard continues to be acceptable for meeting building code insulation requirements, including when used below-grade in contact with soil.

**S&B WebSite <http://www.commerce.state.wi.us/SB/SB-HomePage.html>**

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***Safety and Buildings-related codes are on the Internet***  
**<http://www.legis.state.wi.us/rsb/code/comm>**

State administrative codes and the code update service may be purchased by contacting state Document Sales, 608-266-3358, or 800-362-7253, for credit card purchases. ❖ ❖ ❖ ❖ ❖ ❖

# Events Calendar

March 7, 2000 - Thursday - Commercial Building Code Council - 9:15 a.m. to 3 p.m. - Department of Agriculture, Trade, and Consumer Protection - 2811 Agriculture Dr, Rm. 106 - Sam Rockweiler, 608-266-0797, srockweiler@commerce.state.wi.us

March 16, 2000 - Friday - Plumbing Advisory Code Council - 9 a.m. to 3 p.m. - Thompson Bldg., Rm. 3B, 201 W Washington Ave., Madison - Jean MacCubbin, 608-266-0955, jmaccubbin@commerce.state.wi.us

March 23, 2000 - Thursday - Pool Code Advisory Council - 9 a.m. to 3 p.m. - Sun Prairie

Contact the listed Code Consultant for information on the meetings agenda, locations, etc. If you have questions concerning technicalities of the codes which are the subjects of the meetings, contact consultants and reviewers listed on pages 14 and 15 of this *WBCR*.

Public Library, 1350 Linnerud Dr - Jean MacCubbin, 608-266-0955, jmaccubbin@commerce.state.wi.us

March 28, 2000 - Tuesday- IBC-HVAC Code Council - 8:30 a.m. to 2 p.m. - Thompson Bldg., Rm. 3C, 201 W Washington Ave., Madison - Jean MacCubbin, 608-266-0955, jmaccubbin@commerce.state.wi.us

## Material Approvals

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Waste Oil furnaces, 950016-H (Revision #3)  
Lenan Corporation  
4109 Capital Circle  
Janesville, Wisconsin 53546

Unit Heater, 970104-H (Revised)  
Thermo-Cycler Industries, Inc.  
P.O.Box 22  
Union Mills, IN 46382

Ag Tank, 990061-U (Replaces 940020-U)  
Kleespie Tank & Petroleum Equipment, Inc.  
P.O.Box 106  
Morris, MN 56267

Concrete Block, 990066-R (Replaces 930087-R)  
Quality Concrete Products. Inc.  
P.O.Box 130  
Sussex, WI 53089

Ag Tanks, 990068-U  
Kennedy Tank & Manufacturing Company, Inc.  
833 East Sumner Avenue  
Indianapolis, IN 46227

Direct Vent Central Furnace, 970010-H (Revised)  
United Technologies-Carrier  
7310 West Morris Street  
Indianapolis, Indiana 46231

Per Comm 10.125, COMM 20.18, and Comm 50.19, the following have been issued material approvals in September and October, 1999. The approvals are valid for a five-year period. Copies of the full approval are available from the Safety and Buildings Integrated Services Bureau, PO Box 2658, Madison, WI 53701-2658.

U-Fuel Express, 990065-U  
U-Fuel, Inc.  
5110 Fairview Drive  
Eau Claire, WI 54701

Translucent, Composite Structural Panels, 990067-L (Replaces 930009-L)  
Kalwall Corporation  
1111 Candia Road  
Manchester, NH 03109

DV, Gas Hot Water Boiler, 990071-H  
Crown Boiler Company  
3633 I Street  
Philadelphia, PA 19134

Igloo Concrete Forms, 990072-I  
Racine Form Works, Inc.  
P.O. Box 1585  
Racine, Wisconsin 53401

# Electrical questions and answers

by the Safety and Buildings Division Electrical Program staff

1. A **submersible well pump** with two-wire well cable is replaced. Does the new pump require an equipment-grounding conductor? If so, where should the equipment ground be connected if the branch circuit cable does not have an equipment-grounding conductor?

Yes to the first question. See NEC 250-112(l). The second answer: the new cable should have an equipment-grounding conductor connected to the pump. If the branch circuit cable has an equipment-grounding conductor, connect the two together inside the well cap. Use a bonding jumper to connect the well casing to the two equipment grounds. If the branch circuit cable does not have an equipment ground, **do not** connect the pump-grounding conductor to the casing. Tape it off inside the well head for future connection when branch circuit conductors are replaced.

2. A **farm transformer** is isolated from ground in an attempt to control “stray currents.” Are “isolation” type transformers permitted on the ground?

No. The transformers would present a potential shock hazard since the transformer case is not grounded. If used, an

isolation transformer must be elevated at least eight feet off the ground on a wooden pole. The transformer must also be located at least five feet horizontally from any



grounded objects such as guy wires or barn siding. See NEC 250-110(1). The S&B electrical consultants (see page 15) have a brochure on isolation transformers containing typical installation diagrams.

3. Does the **fuse or circuit breaker on the primary side of a transformer** generally protect the secondary conductors?

No. The primary protective device protects only

the transformer in most typical applications. For that reason, the length of the secondary conductor



without separate overcurrent protection is strictly limited. The protection rules for transformer secondary conductors were

reorganized and are now found in Section 240-21(c). The rules generally limited the length to either 10 feet or 25 feet, both with conditions. Under most conditions, the conductors will terminate in a “main” fuse or circuit breaker.

4. The **elevator hoistway** looks like a convenient way to route the **fire alarm cables** to the upper floors of the building. Is this permitted?

No. NEC 620-37 places limits on the types wiring in the elevator hoistway and machine room. Only the wiring, cables and raceways that are directly associated with the elevator operation is permitted in either of these spaces. The fire alarm wiring and devices for elevator shaft protection are examples of permitted uses.

5. A new hotel is built with an associated ballroom. The class of construction is “Type 6” and the capacity is 350 persons. Are we permitted to use **ENT**?

Yes. Unlike other places of assembly, there are special conditions found in NEC 518-4(c) which allow nonmetallic wiring methods in the assembly areas of hotels and motels. The ENT must be concealed in the wall, floor, or ceiling. The concealing surface of the wall, floor, or



ceiling shall have a 15-minute finish rating. The ENT may also be encased in a minimum of 2-inches of concrete. See 518-4(a).

6. One building contains retail, office, and storage areas. Hourly rated firewalls provide separation between various parts of the building. I need to determine if **emergency egress illumination** is required by COMM 16.46. How do I use the table?

Table 16.46 is a list of various types of occupancies. Once an occupancy type reaches a certain size or capacity, a standby power source is required for emergency illumination. For example, consider a retail space totaling 60,000 square feet on two floors, equally divided. The capacity of the first floor, given by Table 16.46 is 1000 people. The capacity of the second floor is 500 people. The total capacity of the retail portion of the building is 1500 people. Therefore, an emergency source of standby power is required. The number, location, or hourly rating of any firewalls does not affect the situation.

Note that COMM 16.46-(1) recognizes only the emergency sources permitted by NEC 700-12 (a), (b), (c), or (e). A separate service or tap ahead of the service main are **not** a permitted as an



emergency standby source.

7. Is the **electrical panel that comes with a manufactured (mobile) home** permitted to be used as the service panel for the home?

No. A manufactured (mobile) home is built and wired in the factory. The home is built to standards that are set by the federal government. The wiring standard is different from the NEC. The house panel is normally connected in the factory as a feeder panel. The neutral is not bonded. One or more equipment grounding bars are provided. Factory installed wiring cannot be legally altered in the field. In other words, even if the panel has a main and is marked as a service panel, it cannot be legally reconnected as such in the field.

The NEC tells you how to provide service to a manufactured home through Section 550-23(b). Since a manufactured home is intended to be mounted on a permanent foundation, the service equipment may be on the home or on the foundation. If the home has a basement, the service equipment could be in the basement, similar to conventional construction. From the service equipment, four insulated, color-coded conductors are run in a raceway to the house panel. See 550-(5)(I) and 550-24(a). The code also requires that the mobile home service equipment have provisions for future loads. See 550-23(d). The house panel may be used to supply additional loads if there is capacity.

## Erosion Control for Homebuilders - Erosion Control for Small Construction Sites

Feb. 10 ..... Sheboygan Falls  
March 7 ..... Oshkosh  
March 14 ..... Bristol  
March 15 ..... Madison  
March 30 ..... Lake Mills  
April 11 ..... Ashland  
TBA ..... Baldwin



### Continuing ed credits:

UDC Construction Inspector ..... 4  
Commercial Inspector ..... 4  
Journeyman Plumber ..... 6  
Journeyman Plumber Restricted Service ... 6  
Master Plumber ..... 6  
Master Plumber - Restricted Service ..... 6

All programs will be from 8 a.m. to 4 p.m. Lunch is included. Fee is \$50.

For information, contact UW-College of Agriculture and Life Sciences Outreach Services - 608-263-1672.

# Sanitary permits must be issued before building permits

A new law requires all new one- and two-family dwellings to be inspected to determine compliance with the state one- and two-family dwelling code, effective May 1, 2000. Cities, villages and towns with a population of 2,500 or less, which are currently exempt from the code, will be required to administer the code unless they pass a resolution declining to do that administration. If the municipality does not pass a resolution, and does not have an inspector, the Safety and Buildings Division will help arrange for third-party inspection services.

With the potential for new parties to be involved in the building permit issuance program comes a need for a reminder about the statutory obligations listed in 66.036, Wis. Stats. This statute subsection, adopted in 1977 states, in part: "No county, city, town or village may issue a building permit for construction of any structure requiring connection to a private domestic sewage treatment and disposal system unless a system satisfying all applicable regulations already exists to serve the proposed structure or all

"The purpose of this requirement is to assure that construction of any building, private or public, which must be served by a private sewage system, does not proceed without first determining whether such a system may be installed."

permits necessary to install such a system have been obtained."

The purpose of this requirement is to assure that construction of any building, private or public, which must be served by a private sewage system, does not proceed without first determining whether such a system may be installed. In most cases for new construction, this means the issuance of a Sanitary Permit prior to the issuance of a Building Permit.

More information about the changes in the Uniform Dwelling Code program was on page 6 of last month's *WBCR* or on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>, or contact Tom Kasper, 608-267-7586, [tkasper@commerce.state.wi.us](mailto:tkasper@commerce.state.wi.us).

## Rectorseal "putty pads" OK for use on nonmetallic outlet boxes

by J.B. Smith, Safety and Buildings Division Commercial Buildings Program Manager, 608-266-0251, [jsmith@commerce.state.wi.us](mailto:jsmith@commerce.state.wi.us)

The Rectorseal Corporation joined 3M Company and Specified Technologies in having Underwriters Laboratory approval of use their "Wall Opening Protective Materials" to reduce spacing between certain nonmetallic outlet boxes when the outlet boxes are installed on opposite sides of fire-rated walls and membrane walls. The products were previously approved for reduction of spacing placement on metallic outlet boxes in wallboard partition/wall assemblies, but not for nonmetallic boxes.

The specific Rectorseal products are named "Metacaulk Fire Rated Putty Pads" or "Biostop Fire Rated Putty Pads." These are products generically

referred to as "putty pads."

The important news is the products can now be used to reduce the 24 inch spacing limit for the "Carlson" UL Listed Nonmetallic Outlet Boxes bearing a 2-hour rating under the "Outlet Boxes and Fitting Classified for Fire Resistance" category of the UL Fire Resistance Directory. The listing did not include any other box manufacturers. The report further indicated the combination is good in 1-hour and 2-hour gypsum wallboard assemblies framed with minimum 3 1/2 inch deep wood studs included in the U300 series of fire resistive assemblies. The only other restriction is the boxes cannot be placed back-to-back.

# Safety and Buildings studies how and why it approves continuing education classes

The Safety and Buildings Division is studying the process by which it approves continuing education classes for people who have S&B credentials and who have continuing education responsibilities.

There are issues such as how useful specific classes are, about consistency between different types of credentials, and about the division following defined rules.

The plumbing profession, for example, includes many responsibilities besides design, installation, and inspection of plumbing. What about safety? Should first aid classes receive credit? How about CPR classes? What about driving the truck to the site? S&B needs to be clear about how it determines if classes on these subjects are relevant to credential categories.

If the class topics mentioned just above are approved for plumbers and plumbing inspectors, should electricians or building inspectors also be eligible for receiving credit for taking classes on those topics? The division needs to be aware of consistency and fairness in approving con ed credits for the roughly 20 credential categories for which it

administers continuing education.

If code-related courses are acceptable for continuing education credit, how expansive should the con ed outlook be? For example, if a course on the Wisconsin Plumbing Code is approved, should a course on a national or international plumbing code also receive approval?

Consider a 4-hour class on plumbing electrical systems. If this should be approved, what about a semester-long class in electrical systems? If the plumbing electrical systems class is approved for con ed for electricians, should a more in-depth course on plumbing systems be approved?

It is important that there be a wide selection of classes available for people who have continuing education responsibilities. At the same time, S&B wants to be sure approved classes are of real value.

If you have comments or questions on S&B's studying and defining the continuing education class approval process, contact Randy Baldwin, Integrated Services Bureau Director, [rbaldwin@commerce.state.wi.us](mailto:rbaldwin@commerce.state.wi.us), fax 608-267-9566.

## Employment Opportunity

Engineering Consultant - Building Systems - Senior - Green Bay

Department of Commerce; Division of Safety and Buildings; Green Bay. **Salary:** \$43,042 per year, plus excellent benefits. This classification is represented by the State Engineering Association. **Duties:** Examine building construction, structural, and heating, ventilating, air conditioning (HVAC) plans to ensure protection of the health, safety and welfare of the public and employees; assure that minimum standards are attained in the design, construction, structural strength, quality of materials, adequate egress facilities, natural lighting and ventilation, energy conservation and fire safety for all public buildings and places of employment in accordance with the requirements of the Wisconsin Administrative rules; communicate with architects, engineers, designers, contractors, and owners to respond to technical inquiries, explain compliance issues, provide code interpretations, and resolve problems; conduct preliminary plan reviews and requests for petitions for variance; and perform field inspections as directed. **Knowledge and Skills:** Knowledge of architectural and engineering practices and principles; HVAC practices and principles; Wisconsin Administrative Code as it applies to building and HVAC plan review; Communication with architects, engineers, contractors and/or owners and the general public; Inspection of construction sites, buildings and structures; and effective oral, written and interpersonal communication techniques. **To Apply:** For information on how to apply, contact Dale Bartz; Commerce Personnel; 201 W Washington Ave; Box 7970; Madison, WI 53572-7970, 608-266-0366, Fax 608-266-0182, email, [dbartz@commerce.state.wi.us](mailto:dbartz@commerce.state.wi.us).



## S&B encourages you to think about teaching continuing education courses

by Robert DuPont, S&B  
Program Development  
Bureau Director, 608-  
266-8984,  
rdupont@commerce.  
state.wi.us

Individuals, associations, businesses, and the academic community should consider providing professional continuing education opportunities.

Traditionally, Safety and Buildings Division-sponsored training has been the major part of continuing education offered in Wisconsin to fulfill con ed responsibilities in the licensing, registration, and certification programs which the division administers. Usually, S&B has presented code-related subject matter and “refresher” courses.

Over the last few years, I’ve noticed an increase in the number of industry-sponsored training opportunities. Now might a good time for people to consider whether presenting more of their own continuing education classes would fit their needs, while offering economic opportunities.

For example, think about the continuing education involved with Private Onsite Wastewater Treatment Systems. The POWTS industry on a national level is experiencing an explosion of new products, materials, and installation techniques. The program here in Wisconsin is witnessing a dramatic increase in the numbers and types of wastewater treatment devices and designs. While S&B may be asked to review and approve the technical specifications or performance claims of these devices and designs, it is the industry that will be purchasing and installing the systems.

With changes in an industry comes the need for more specialized training, not just for industry members, but the regulators and property owners, also.

Individuals, associations, and businesses could work separately or together to provide their own con ed sessions. They know their topical needs better than S&B does. They can make sessions

more convenient than S&B can. For their own advantage, they could also take some of the continuing education “business” away from S&B.

Training that is tailored to the specific needs of industry members is always well received; industry members can serve themselves. Also, local regulators ask for training from the experts - the industry.

And, for example, working with POWTS homeowners who need to learn about more technical POWTS can make double use of the education provider’s fund of knowledge and can open leads to customers.

The idea of industry members expanding education offerings in Wisconsin works for you as a taxpayer, too. It could allow S&B to focus on providing timely information on code and policy-related activities, while placing the specialized training in the hands of those who are in the best position to offer and appreciate it.

### S&B Bureau of Integrated Services Management Contacts

Bureau Director: Randy Baldwin, 608-267-9152

Green Bay office: Brad Johnson, 920-492-5605

Hayward Office: John Spalding, 608-789-4693

LaCrosse Office: John Spalding, 608-789-4693

Madison Office:

Clyde Bryant 608-266-1835

Mary Jacobson 608-266-8456

Jim Miller 608-266-8072

Robin Zentner 608-266-1930

Credentialing Unit Supervisor, Terry

Gudmansen: 608-261-6554

Shawano Office: Brad Johnson, 715-524-6853

Waukesha Office: Tony Rubio, 262-548-8610



# Plumbing rules exemplify changes in language

By Richard Meyer, Safety and Buildings Division Code Development  
Supervisor, 608-266-3080, rmeyer@commerce.state.wi.us

Wisconsin statutes require state agencies to draft administrative rules in the same written style that is used to draft laws. Rules are quasi-laws that are enforceable by courts.

Drafting styles of statutes change over time. Rules put into place in the 60's and 70's often read differently than rules of the 80's and 90's. Language in adopted standards written by national organizations may differ from any style current in Wisconsin at a specific time.

Since not all of a rule chapter is written at one time, style differences sometimes can be noted within a given rule chapter. This is especially true where a particular rule contains several major sub-elements.

To illustrate the style changes, consider a current rule contained in the plumbing code, specifying minimum separation distances between building drains and building sewers and wells: Comm 82.30(11)(d) *Location limitations*. Building drains and building sewers shall be separated from water wells by the following minimum distances:

1. Eight feet for building drains and building sewers of cast iron pipe;
2. Eight feet for building drains and building sewers of plastic pipe;
3. Twenty-five feet for building drains and building sewers of other materials; and
4. Twenty-five feet for all pressurized building drains and building sewers.

If this section was rewritten today using current drafting style guidelines, it could read as follows:

Comm 82.30(11)(d) *Location limitations*. Building drains and building sewers shall be separated from water wells by the applicable minimum distance in accordance with all of the following types of installation:

1. Eight feet for building drains and building sewers of cast iron pipe.
2. Eight feet for building drains and building sewers of plastic pipe.
3. Twenty-five feet for building drains and building sewers of other materials.

4. Twenty-five feet for all pressurized building drains and building sewers.

Note the subtle difference in drafting styles between the two versions. In the rewritten version, the underlined phrase “all of the following” more clearly shows all of the enumerated conditions need to be complied with. Also, each enumerated condition ends in a period, as opposed to a semicolon, and the “and” is deleted between the last two conditions. In this example, the requirements did not change; but the drafting style provides the reader with a clearer message as to what is required.

As code sections containing multiple conditions are updated, the text will usually be revised to include phrases such as “one of the following” or “all of the following,” to clarify which condition apply.

## Fire department dues forms were mailed in January

The fire department dues self-certification audit forms were mailed by the Safety and Buildings Division in January 2000 to each municipal clerk. The forms must be signed and returned to S&B by March 1, 2000.

As required in Comm 14.025, the municipal clerk and the fire chief must both sign the self-certification audit form for the municipality to be entitled to receive fire department dues.

If the territory of the fire department includes more than one municipality, the fire chief must be certain to sign a self-certification audit form for each municipality served by the department.

Failure to return completed self-certification audit forms by the March deadline will result in issuance of a Notice of Noncompliance to the fire chief and to the municipality.

Questions regarding the fire department dues self-certification audit may be directed to a Fire Safety Consultants listed on page 15 of this *WBCR*.

# Update on Wisconsin's consideration of the International Building Code

by J.B. Smith, Safety and Buildings Division  
Commercial Buildings Program Manager, 608-  
266-0251, jsmith@commerce.state.wi.us

At the last meeting of the 1900's for the Commercial Building Code Council, the majority of the discussion focussed on comparisons of the Wisconsin Building Code and the draft model International Building Code.

Included were reports from several specialty advisory councils - Structural for IBC chapters 16 through 25, and Elevators for IBC chapter 30. The two specialty councils summarized their efforts, as well as previewed the recommendations they intended to forward to Safety and Buildings Division management.

The members of the CBCC expressed concern that some of the recommendations from the structural group did not include enough information to explain proposed "Wisconsinisms," possible amendments to the IBC. The CBCC members asked and the representatives on the structural committee agreed to revisit the issues and come back to the next meeting.

The report from the elevators group was positively received.

As you may or may not have been aware, Wisconsin and New York are the only two states that still create their own building codes. We have been told New York will be adopting the International Code Council suite of codes, including the IBC and the International Fire Code.

A representative of New York will attend a CBCC meeting to provide insight as to their experiences with the process, and Wisconsin representatives will visit to New York in early March.

The CBCC was provided with a list of references to the IFC that are currently found in the IBC. Also shared with the group were staff or specialty council analysis and comparisons for the IBC subjects the CBCC still looks forward to considering. Those subjects include comparing definitions, and IBC Chapters 12 (Interior Environments), 29 (Plumbing

Systems), 31 (Special Constructions), 32 (Encroachments into Right of Ways), and 34 (Existing Structures).

The council is well on its way to completing IBC review efforts and I expect code drafting on Wisconsinisms will begin; use of Wisconsin's code change procedures to adopt the IBC.

The IBC could be adopted in July 2001, with an effective date of July of 2002.

The next CBCC council meeting will include an analysis and recommendations from the HVAC council regarding the adoption of the International Mechanical Code. At the present time, the IMC could be adopted in Wisconsin in April, 2001, with an effective date of October, 2001.

## Involved at the national level

Although not directly relating to CBCC activity, S&B recently has solidified its intent to become more involved in the IBC development at the national level. S&B staff have been nominated to several ICC/IBC Technical Code Development Committees and one appointment has been made to the IBC Means of Egress Code Development Committee. Several appointments have also been made to BOCA Code Review Committees and BOCA Construction Interpretations Committees.

# Employment Opportunities

## Engineering Consultant - Building Systems - La Crosse

Department of Commerce; Division of Safety and Buildings; LaCrosse. **Salary:** \$31,386 per year, plus excellent benefits. This classification is represented by the State Engineering Association.

**Duties:** Examine building construction, structural, and heating, ventilating, air conditioning (HVAC) plans to ensure protection of the health, safety and welfare of the public and employees; assure that minimum standards are attained in the design, construction, structural strength, quality of materials, adequate egress facilities, natural lighting and ventilation, energy conservation and fire safety for all public buildings and places of employment in accordance with the requirements of the Wisconsin Administrative rules; communicate with architects, engineers, designers, contractors, and owners to respond to technical inquiries, explain compliance issues, provide code interpretations, and resolve problems; develop and maintain an awareness of codes, engineering principles and practices; and perform field inspections as directed. **Knowledge and Skills:** Knowledge of architectural and engineering practices and principles; HVAC practices and principles; Wisconsin Administrative Code as it applies to building and HVAC plan review; Communication with architects, engineers, contractors and/or owners and the general public; Inspection of construction sites, buildings and structures; and effective oral, written and interpersonal communication techniques. **How to Apply:** For special application/examination materials, call or write to Dale Bartz; Commerce Personnel; 201 W. Washington Ave; PO Box 7970; Madison, WI 53572-7970; 608-266-0366; Fax 608-266-0182; email: [dbartz@commerce.state.wi.us](mailto:dbartz@commerce.state.wi.us). Completed application/examination materials are due no later than 4:30 p.m., Friday, February 25, 2000. Completed materials will be evaluated and the most qualified applicants invited to participate in the next step of the selection process.

## Engineering Consultant - Building Systems – Advanced - Commercial Building Code Program Monitor - Madison

Department of Commerce; Division of Safety and Buildings; Madison. **Salary:** \$43,042 per year, plus excellent benefits. This classification is represented by the State Engineering Association.

**Duties:** Serve as a statewide monitor for Commercial Building plan reviews conducted by certified municipalities and agents; develop policies, procedures, and rules; provide technical expertise as a consultant to municipalities; conduct monitoring visits to municipalities to review processes and procedures and assure compliance; prepare and present training related to Commercial Building Code; disseminate information to program participants; mediate disputes and appeals; conduct plan reviews. **Knowledge and Skills:** Knowledge of architectural and engineering practices and principles; Wisconsin Commercial Building Code as it applies to building and HVAC plan review process; Communication with architects, engineers, contractors and/or owners and the general public; Inspection of construction sites, buildings and structures; and effective oral, written and interpersonal communication techniques. Well-qualified candidates will have a 4-year degree in a related field of engineering or architecture, EIT, PE, Registered Designer License, or equivalent. **How to Apply:** For information on how to apply, call or write to Dale Bartz; Commerce Personnel; 201 W. Washington Ave; PO Box 7970; Madison, WI 53572-7970; 608-266-0366; Fax 608-266-0182; email: [dbartz@commerce.state.wi.us](mailto:dbartz@commerce.state.wi.us).

# Employment Opportunity

## Elevator Safety Inspector- Madison

Department of Commerce, Safety and Buildings Division, Field Operations Bureau. Starting pay is \$29,206 per year, plus excellent benefits. This position is included in the Security and Public Safety bargaining unit. A six-month probationary period is required. The position will be responsible for conducting inspections in the Rock County and surrounding counties area, but will report to the Madison Office. **Job Duties:** Inspect existing elevators and related lift equipment within a geographical area to ensure safe operation and compliance with State and National safety codes. Write orders to require correction of code and safety violations, shut down unsafe equipment, and provide additional enforcement action as necessary. Prepare detailed inspection reports, make recommendations to owners, and participate in prosecution activities. Oversee safety testing of newly installed elevators and related equipment and evaluate results to determine compliance with safety codes. **Knowledge Required:** Structural and mechanical construction of elevators and related lift equipment; elevator installation and maintenance; elevator safety testing procedures, such as testing car safety devices, overspeed governors, oil buffers, hydraulic bypass valves, capacity loading, smoke detectors, and fire control features; inspection methods; principles of hydraulics; electrical wiring methods; blueprint reading. **Note:** The person hired must become certified as an elevator inspector according to the provisions of COMM 5, Wis. Admin. Codes, within the first six months of employment. This position requires possession of or eligibility to obtain a valid Wisconsin driver's license. Substantial travel, including overnight, will be required. This position requires the ability to bend, stoop, and climb for the inspection of elevators. Apply with the Application for State Employment form (DER-MRS-38) and a letter of application which details your education, training, and work experience in each of the following areas: (1) installing, designing, or maintaining hydraulic, mechanical and electrical systems of elevators and other lift equipment; (2) familiarity / experience working with Chapt. 18 of the Wis. Admin. Codes as they relate to the inspection of elevators and related lift equipment. Also cite any certifications or other relevant credentials you possess. Please describe all equipment and devices worked with. Send application materials to: Dale Bartz, Dept. of Commerce, Human Resources Office; 201 West Washington Ave., P.O. Box 7970; Madison, WI 53707-7970; 608-266-0366; FAX 608-266-0182; email – [dbartz@commerce.state.wi.us](mailto:dbartz@commerce.state.wi.us). Application materials will be accepted until the needs of the Department are met, with the first review of application materials scheduled for the week of February 28, 2000.

## Appliances need special attention

Bedrooms are the most common room in a home where electrical fires start. Electrical fires are of special concern during winter months which call for more indoor activity and increases use of lighting, heating, and appliances.

Do not trap electrical cords against a wall where heat can build up.

Take extra care when using portable heaters. Keep bedding, clothes, curtains, and other combustible items at least three feet away from space heaters.

Only use lab-approved electric blankets and warmers. Check to make sure the cords are not frayed.

# CERTIFIED MUNICIPALITIES

Per ILHR 50.21, the following municipalities are certified to review plans for new buildings containing less than 5,000 sq. ft. total area; additions to existing buildings where the total area after construction of the addition is less than 5,000 sq.ft.; and alterations to existing building where the area of altered space is less than 10,000 sq. ft. If your project is located in a listed municipality, and meets the size criteria, contact the municipality for plan review. For information regarding the current status of a municipality, call 608-267-7586.

<u>Counties</u>	Fitchburg	Middleton	Port Edwards	Walworth
Eau Claire	Fond du Lac	Milwaukee*	Poynette	Waterford
	Fontana	Monroe	Racine	Waukesha
<u>Cities and Villages</u>	Fort Atkinson	Muskego	Rhineland	Waunakee
Altoona	Franklin	New Berlin	Ripon	Waupun
Antigo	Fredonia	New Richmond	Seymour	Wausau
Augusta	Glendale	Oak Creek	Sheboygan	Wauwatosa
Beloit	Grafton	Oconomowoc	Silver Lake	West Allis
Berlin	Green Bay	Omro	Stevens Point	West Bend
Big Bend	Greenfield	Osceola	Sturgeon Bay	West Milwaukee
Black River Falls	Hartland	Oshkosh	Sun Prairie	Weyauwega
Brookfield	Hortonville	Osseo	Superior	Whitefish Bay
Brownsville	Howard	Paddock Lake	Sussex	Wis. Rapids
Burlington	Janesville*	Plover	Twin Lakes	
Cedarburg	Jackson			
Cudahy	Johnson Creek	*Municipalities marked with an* are authorized to review plans without limit on size of building or project.		
Delafield	Kaukauna			
Dousman	Kenosha			
Dresser	La Crosse			
Eau Claire	Lake Geneva	<u>Towns (County)</u>	Delavan (Walworth)	
Elkhorn	Madison*	Berry (Dane)	Farmington (Polk)	
Elm Grove	Marshfield	Bloomfield (Walworth)	Geneva (Walworth)	
Fall Creek	Mequon	Bristol (Kenosha)	Grand Chute (Outagamie)	
		Cottage Grove (Dane)	Grand Rapids (Wood)	
			Hull (Portage)	
			LaGrange (Walworth)	
			Linn (Walworth)	
			Mukwonago (Wauke.)	
			Norway (Racine)	
			Ottawa (Waukesha)	
			Plover (Portage)	
			Raymond (Racine)	
			Seymour (Eau Claire)	
			Somers (Kenosha)	
			Springdale (Dane)	
			Sugar Creek (Walworth)	
			Theresa (Dodge)	
			Waterford (Racine)	
			Waukesha (Waukesha)	
			Wheatland (Kenosha)	
			Windsor (Dane)	

There is also a group of municipalities having inspection authority for commercial and multifamily buildings, but which do not have plan review authority. (The Safety and Buildings Division does plan review for them.)

## Inspections Only

Village of Belgium (Ozaukee)	Town of Pleasant Springs (Dane)
Village of Cambridge (Dane)	Town of Rochester (Racine)
Town of Cedarburg (Ozaukee)	Village of Rochester (Racine)
Town of Lyons (Walworth)	City of So. Milwaukee (Milwaukee)
Town of Madison (Dane)	Village of Sturtevant (Racine)
Town of Oakland (Jefferson)	Town of Summit (Waukesha)
Village of Oregon (Dane)	Village of Thiensville (Ozaukee)

## Safety and Buildings Offices

(maps of S&B office locations are available on the WebSite at <http://www.commerce.state.wi.us/SB/SB-Offices.html>)

### Green Bay Office

2331 San Luis Pl #150  
Green Bay WI 54304  
920-492-5601  
Fax 920-492-5604  
[greenbaysch@commerce.state.wi.us](mailto:greenbaysch@commerce.state.wi.us)

### Hayward Office

10541N Ranch Rd  
Hayward WI 54843  
715-634-4870  
Fax 715-634-5150  
[haywardsch@commerce.state.wi.us](mailto:haywardsch@commerce.state.wi.us)

### La Crosse Office

4003 North Kinney  
Coulee Road  
La Crosse WI 54603  
608-785-9334  
Fax 608-785-9330  
[lacrossesch@commerce.state.wi.us](mailto:lacrossesch@commerce.state.wi.us)

### Madison Office

201 W Washington Ave  
PO 2658  
Madison WI 53701  
608-266-3151  
Fax 608-261-6699  
[madisonsch@commerce.state.wi.us](mailto:madisonsch@commerce.state.wi.us)

### Shawano Office

1340 E Green Bay St #300  
Shawano WI 54166  
715-524-3626  
Fax 715-524-3633  
[shawanosch@commerce.state.wi.us](mailto:shawanosch@commerce.state.wi.us)

### Waukesha Office

401 Pilot Ct # C  
Waukesha WI 53188  
262-548-8600  
Fax 262-548-8614  
[waukeshasch@commerce.state.wi.us](mailto:waukeshasch@commerce.state.wi.us)

## Plan Review Scheduling

For plan review scheduling for Plumbing and Buildings, call the S&B office numbers listed above, or contact the email address shown. Fax scheduling is possible. Information about the project will be needed to schedule the plan review. Any of the offices can schedule the first appropriate plan review available statewide.

Plan review for Private Onsite Wastewater Treatment Systems is provided on a first-come, first-served basis. Contact one of the offices for information.

For scheduling info, also see <http://www.commerce.state.wi.us/SB/SB-DailyDoc.html>.

Direct comments, suggestions for articles, etc., to Todd Taylor. Fax 608-264-8795.

Telephone 608-267-3606.

[ttaylor@commerce.state.wi.us](mailto:ttaylor@commerce.state.wi.us)

Madison mailing address above.

Sample S&B email address:  
[dstilen@commerce.state.wi.us](mailto:dstilen@commerce.state.wi.us)

## Specialty Telephone Contacts

Barrier Free Access ..... Donna Stilen ..... 262-548-8609  
Codes Sales ..... 1-800-362-7253  
Credentialing ..... 608-261-8500  
Elevator Plan Review ..... Brian Rausch ..... 262-521-5444  
Heating and Ventilation .. Randy Dahmen .... 608-266-3162  
Historic Buildings ..... Duane Peterson ... 715-524-6852  
Hospitals & Nursing Homes, DHFS ..... 608-266-3878  
Industrial Hygienists ..... Richard Brandt ..... 262-521-5187  
Tom Pritchett ..... 608-592-3974  
Lighting ..... Randy Dahmen .... 608-266-3162  
Manufactured Dwellings Gary Ekes ..... 608-355-0108  
Mobile/Manufactured Homes ..... 608-266-8577  
Plan Review Status ..... S&B offices listed on this page  
Refrigeration ..... Mike Verhagen .... 262-548-8617  
Soil Erosion Control ..... Mary Jo Webster . 608-266-2128  
Structural Steel Welding . Mike Verhagen .... 262-548-8617  
Training ..... Tom Kasper ..... 608-267-7586  
Uniform Dwelling Code .. Leroy Stublaski .... 608-267-5113  
Rental Weatherization...Delores Kolosovsky 608-267-2240  
Teletypewriter (TTY) ..... 608-264-8777

## Boiler Inspectors

Duane Leetch ..... Cornell ..... 715-239-6009  
James Markiewicz ..... Appleton ..... 920-832-5287  
Rick Merkle ..... Kenosha ..... 262-653-6880  
Rodney Nuttall ..... Portage ..... 608-742-0321  
Steve Seibel ..... Fond Du Lac ..... 920-929-7513  
Dean Yourchuck, Jr ..... Muscoda ..... 608-929-4578  
Terry Waldbillig ..... Waukesha ..... 262-521-5066

## Plumbing Consultants

Tim Joyce ..... Madison ..... 608-825-4724  
Don Kay ..... Green Bay ..... 920-834-3093  
Don Oremus ..... Pelican Lake ..... 715-487-6123  
Jim Wehinger ..... Friendship ..... 608-339-7430  
Jim Zickert ..... Eldorado ..... 920-872-2656

## POWTS Wastewater Specialists

Ross Fugill ..... Shawano ..... 715-524-3629  
Leroy Jansky ..... Chippewa Falls ... 715-726-2544  
Carl Lippert ..... Hayward ..... 715-634-3484  
Karl Schultz ..... Oshkosh ..... 920-424-3311  
Dennis Sorenson ..... La Crosse ..... 608-785-9336  
Duane Steiner ..... West Baraboo .... 608-355-3159  
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## Public Sector Occupational Safety Inspectors

Scott Amacher .....	Cameron .....	715-458-4872
Terrence Clark .....	Stevens Point .....	715-345-5342
Tomothy Condon .....	Waukesha .....	262-521-5189
Manuel Jaurez, Jr. ....	Orfordville .....	608-879-2764
Vernon Lemke .....	Green Bay .....	920-492-5615
Shirley Noltemeyer .....	Waunakee .....	608-849-9862

## Elevator Inspectors

David Holmes .....	Eau Claire .....	715-836-7268
Kenton Johnson .....	Mount Horeb .....	608-437-4093
Jim Kreuzer .....	Tomah .....	608-374-2430
Timothy Marty .....	Appleton .....	920-832-5290
George Poblocki .....	Amherst .....	715-345-5277
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Jerry Rowell .....	Argyle .....	608-543-3414
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Bernard Zalewski .....	Lac du Flambeau ....	715-588-2279
Frank Wozniak .....	Waukesha .....	262-521-5065

## Fire Safety Consultants

John Andersen .....	Chippewa Falls .....	715-726-2556
Dave Bruflat .....	Hayward .....	715-634-6739
Lyle Smith .....	Waukesha .....	262-548-8621
Robert Kiser .....	Appleton .....	920-954-1451
Terry Nolen .....	Verona .....	608-845-5375

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## Electrical Consultants

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Tom Garvey .....	Milwaukee .....	414-747-0256
Raymond Weber .....	Wis. Rapids .....	715-421-2610

## Commercial Building Inspectors

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